

Series 4

I. Correlation functions

1. Verify the general form of the 3-pt function (2.32) (by checking first (2.29) to (2.31)).
2. Verify the general form of the 4-pt function (2.33) in a similar fashion.

II. Ward identities

1. Derive the reduced form of the Ward identity for dilation (2.37) from (2.36) using the Ward identity for translation (2.34). Note: you can pull x out of the path integral!